

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 July 2002 (11.07.2002)

PCT

(10) International Publication Number
WO 02/054663 A3

(51) International Patent Classification⁷: H04Q 7/38, (74) Agents: O'CONNELL, Robert, J. et al.; Qualcomm Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714 (US).

(21) International Application Number: PCT/US01/50643

(22) International Filing Date:
27 December 2001 (27.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/755,660 5 January 2001 (05.01.2001) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

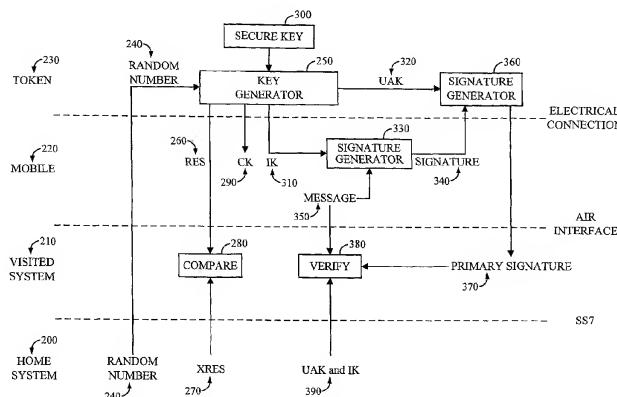
— with international search report

[Continued on next page]

(54) Title: LOCAL AUTHENTICATION IN A COMMUNICATION SYSTEM



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(57) Abstract: Methods and apparatus are presented for providing local authentication of subscribers travelling outside their home systems. A subscriber identification token (230) provides authentication support by generating a signature (370) based upon a key that is held secret from a mobile unit (220). A mobile unit (220) that is programmed to wrongfully retain keys from a subscriber identification token (230) after a subscriber has removed his or her token is prevented from subsequently accessing the subscriber's account.

**(88) Date of publication of the international search report:**

23 January 2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/50643

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04Q/38 H04L9/32 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
IPC 7 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Rouges MS_Shell Treat Analysis" 3GPP TS6 SA WG3 SECURITY, "Online!" 28 - 30 November 2000, pages 1-17, XP002210348 Sophia Antipolis, France Retrieved from the Internet: <URL: http://www.3gpp.org/ftp/tsg_sa/WG3_Security/2000_meetings/TSGS3_16_Sophia_Antipolis/Docs/PDF/S3-000711.pdf> 'retrieved on 2002-08-20! paragraph '02.2! paragraph '2.4.4! paragraph '05.2!	6-9
A	----- -----	1-5, 10-20

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Date of the actual completion of the international search

20 August 2002

Date of mailing of the international search report

05/09/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/50643

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ALBERT LEVI, M. UFUK CAGLAYAN: "A Multiple Signature Based Certificate Verification Scheme" BOGAZICI UNIVERSITY, 'Online! XP002210349 Istanbul Retrieved from the Internet: <URL: http://citesear.nj.nec.com/cache/pape rs/cs/2506/http:zSzSzmercancmpe.boun.edu .trzSz{levizSzbas98.pdf/a-multiple-signatu re-based.pdf> 'retrieved on 2002-08-20! abstract paragraph '0001!</p> <p>-----</p>	1,10,16, 21
A	<p>"Incorporating UIM into 3G and IMT-2000 Systems" TIA/EIA/IS-808, 'Online! - November 2000 (2000-11) XP002210350 Retrieved from the Internet: <URL: http://www.tiaonline.org/standards/sf g/imt2k/cdma2000/TIA-EIA-IS-808.pdf> 'retrieved on 2002-08-20! page 7 -page 25</p> <p>-----</p>	1,10,16, 21
A	<p>MEHROTRA A ET AL: "MOBILITY AND SECURITY MANAGEMENT IN THE GSM SYSTEM AND SOME PROPOSED FUTURE IMPROVEMENTS" PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, US, vol. 86, no. 7, July 1998 (1998-07), pages 1480-1497, XP000854168 ISSN: 0018-9219 the whole document</p> <p>-----</p>	1,10,16, 21